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PATENT APPLICATION

CLAIMS

1. Spring strut comprising a cylinder, with respect to which the axial position of a spring collar can be adjusted, where the spring collar has a sleeve section, by which it is connected to the cylinder, characterized in that, on the cylinder side, a chamber (13) is provided, which is at least partially filled with a curable material, where the sleeve section (15) is in contact with the curable material, which, when in the solid state, transmits a supporting force from the cylinder (1) to the spring collar (3), where the chamber (13) has at least one isolating sleeve (16; 16a, 16b) with a radial guide surface (18) by which the sleeve is in contact with the sleeve section (15) of the spring collar.

2. Spring strut according to Claim 1, characterized in that the isolating sleeve (16; 16a; 16b) is made of plastic.

3. Spring strut according to Claim 1, characterized in that the chamber (13) on the cylinder side is formed by a support ring (5), which is permanently connected axially to the cylinder (1).

4. Spring strut according to Claim 3, characterized in that the support ring (5) has a sleeve (11) and a bottom part (9), and in that the sleeve section (15) is held at least partially inside the sleeve (11) of the support ring (5).

5. Spring strut according to Claim 3, characterized in that the support ring (5) has a connecting opening (17) for the curable material.

6. Spring strut according to Claim 3, characterized in that the isolating sleeve (16) is located between the sleeve (11) of the support ring (5) and the sleeve section (15) of the spring collar (3).

7. Spring strut according to Claim 3, characterized in that the isolating sleeve (16) is located between the cylinder (1) and the sleeve section (15) of the spring collar (3).

8. Spring strut according to Claim 1, characterized in that the isolating sleeve (16; 16a; 16b) forms part of the chamber (13).

9. Spring strut according to Claim 8, characterized in that the isolating sleeve (16; 16a; 16b) forms the bottom part (9) of the support ring (5).

10. Spring strut according to Claim 9, characterized in that a first isolating sleeve (16a) engages with the outside diameter of the sleeve section (15) of the spring collar, and a second insulating sleeve (16b) engages with the inside diameter, the two sleeves being connected to each other by the bottom part (5).

11. Spring strut according to one of Claims 1-10, characterized in that the guide surface (18) of the isolating sleeve (16; 16a, 16b) for the sleeve section (15) of the spring collar (3) is designed to be at an angle to the longitudinal axis of the Spring strut.

12. Spring strut according to one of Claim 1-11, characterized in that a fastening ring (21) is connected nonrotatably to the cylinder (1) and to the isolating sleeve (16; 16a, 16b) after the isolating sleeve (16; 16a, 16b) has arrived in its final position.